

**Notice of Allowability**

Application No.

10/803,823

Examiner

My-Trang N. Ton

Applicant(s)

KAVIANI, ALIREZA S.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Tel. Int. 09/01/04.
2. ☒ The allowed claim(s) is/are 1-24.
3. ☒ The drawings filed on 17 March 2004 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
    1. ☐ Certified copies of the priority documents have been received.
    2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
    3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 03/17/04 & 06/14/0
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413),  
Paper No./Mail Date 09/01/04.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

### **EXAMINER'S AMENDMENT**

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Att. Liu on September 1, 2004.

The application has been amended as follows:

#### **In the claims**

In claim 16, line 1, replace "phase" with -- oscillator --.

In claim 20, line 1, replace "subsystem" with -- system --; replace "16" with -- 15 -- ; and replace "phase" with -- oscillator --.

In claim 21, line 1, replace "subsystem" with -- system --.

In claim 22, line 1, replace subsystem" with -- system --.

#### **Reasons for allowance**

The following is an examiner's statement of reasons for allowance:

The present invention is drawn to a pulse-width controller utilizing a first pulse generator, a second pulse generator, a clock signal, control signal generator logic, differential logic, an oscillator and delay line circuitry ... or first – third means and control means recited in claims 1-24. None of the prior art disclosed or suggested to show the particular structure and/or the particular operation recited in these claims namely: "differential logic coupled to receive the clock signal ... responsive to the second

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adjusted pulse-width signal" (line 13 - last line) in combination of "the first pulse generator", "the second pulse generator" and "the control signal generator logic" as recited in claim 1; "first differential logic coupled to receive the clock signal ... responsive to the second adjusted pulse-width signal" (line 16 – 34) in combination with "the first pulse generator", "the second pulse generator", "the control signal generator logic" and "the oscillator" as recited in claim 12; "third means" in combination with "the first means", "the second means" and "the control means" as recited in claim 23; the combination of all the method steps as recited in claim 24.

The prior art references submitted by the applicant on IDS forms received on 03/17/04 and 06/14/04 were reviewed and considered. These references appear to be the best references with respect to the claimed invention and closely matched most of the references found during the examiner's searches. However, as noted above, "the differential logic" in combination with "the first pulse generator", "the second pulse generator" and "the control signal generator logic", or the combination of "the first – third means and the control means" is not disclosed. Therefore, the claims are patentably distinct over all these prior art references of record.


Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to My-Trang N. Ton whose telephone number is 571-272-1754. The examiner can normally be reached on 7:00 a.m - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Callahan can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



MY-TRANG NU TON  
PRIMARY EXAMINER

September 1, 2004